

APPENDIX G

Data and Monitoring Resources for Adaptive Management of the MCCWA

(hyperlinked)

Data and Monitoring Resources for Adaptive Management of the MCCWA



INTERNAL RESOURCES CDFG Data and Maps

[Data Portal](#): Use the data portal to query CDFG's constantly updated databases, and to generate up-to-date lists and reports. Topics covered include angling records, fishing contests, access to the department's complete species list, the [habitat tracking and reporting tool](#), and many resources for authenticated CDFG employees, partners and subscribers.

[Document Library](#): Use the dynamic search features of the document library to quickly and easily locate, view and download important documents held by CDFG. The holdings include species descriptions, monitoring reports and recovery plans, as well as news releases, resources for CDFG employees and much more.

[BIOS](#): Biogeographic Information and Observation System. Online mapping tool designed to enable the visualization, management and analysis of a wide range of biogeographic data collected by CDFG and partner organizations.

[Biogeographic Data Branch \(BDB\)](#): BDB provides a leadership, policy, and standards setting role for biological and geographic data management activities for the entire California Department of Fish and Game, its contractors, and partner organizations. BDB contains biological data development programs that are especially dependent and closely linked with GIS and emerging related technologies.

[California Natural Diversity Database \(CNDDDB\)](#): A natural heritage program providing rare, endangered, and special status species information for use in conservation and resource management.

[RareFind](#): A data query and reporting application with access to all CNDDDB data; regularly updated.

[California Wildlife Habitat Relationships \(CWHR\)](#): CWHR contains life history, geographic range, habitat relationships, and management information on 694 species of amphibians, reptiles, birds, and mammals in California.

[The Vegetation Classification and Mapping Program \(VegCAMP\)](#): VegCAMP's goal is to develop and maintain maps and the classification of all vegetation and habitats in the state to support conservation and management decisions at the local, regional and state levels.

[Geographic Information Systems \(GIS\)](#): The GIS unit assists CDFG's divisions and regions with the collection, documentation, and analysis of spatial data needed to support good conservation decisions. This includes online mapping tools, a GIS data warehouse, software support, and custom tools.

EXTERNAL RESOURCES

Other Data and Mapping Resources

Coordination with larger regional resource planning serves to improve the long-term viability of habitats and species while providing access to additional data and technical expertise. Key resources for biological planning and monitoring that share common goals as well as local interest in protecting the ecological integrity of the MCCWA include:

[CALFED Ecosystem Restoration Program Information Network \(ERPIN\)](#)

[CalFish](#)

[California Digital Atlas, Inventory, Monitoring and Assessment Program \(IMAPS\)](#)

[California Environmental Data Exchange Network \(CEDEN\)](#)

[California Environmental Digital Library Network \(CalEDLN\)](#)

[California Environmental Resources Evaluation System \(CERES\)](#)

[California Legacy Project](#)

[California Water Resources Control Board, Surface Water Ambient Monitoring Program \(SWAMP\)](#)

[California Watershed Funding Database](#)

[California Watershed Portal Maps and Tools](#)

[California Wetlands Information System](#)

[Environmental Protection Indicators Program \(EPIC\)](#)

[Natural Resource Projects Inventory \(NRPI\)](#)

[Historical Works of California Native Grasses and Grassland Management](#)

[Sacramento Valley Bioregion](#)

[USFWS, Pacific Region Portals](#)

Inventory and Monitoring Assistance

Educational/Academic Programs. Students and researchers utilizing the Balls Ferry Research and Education Center (BFREC) could provide baseline data collection and monitoring for the MCCWA, focusing initially on Balls Ferry Wetland Unit 1(BFW1). As this program develops, additional resources may be directed to the Cottonwood Creek Unit. Shasta College and California State University, Chico, have expressed interest in utilizing the Wildlife Area as an extended outdoor classroom, and student monitoring is a viable and inexpensive option for collecting resource data.

Community Groups. The local chapter of the Audubon Society (Wintu Audubon) is extremely active in the region, participating in the annual Breeding Bird Survey, managing and conducting the annual Christmas Bird Counts, and assisting the Point Reyes Bird Observatory (PRBO) with point counts at nearby Clear Creek. They regularly offer birding trips for both novice and experienced birders to nearby Reading Island and have indicated a desire to assist CDFG with breeding bird surveys and point counts at the MCCWA. The Wintu Audubon Society has expressed interest in assisting CDFG with bird monitoring at the MCCWA (Santry, personal communication). Additional support for the biological monitoring element may come from USFWS, PRBO Conservation Science, and the Riparian Habitat Joint Venture. The Cottonwood Creek Watershed Group may also be available to assist with benthic macro invertebrate (BMI) monitoring.